

CLAIMS

I claim:

1 1. An optical mouse integrated circuit comprising:
 2 an unitary substrate;
 3 an optical sensor generating data;
 4 an analog-to-digital converter receiving and processing the data;
 5 a microprocessor receiving the processed data; and
 6 memory connected to the microprocessor;
 7 wherein the optical sensor, analog-to-digital converter, microprocessor, and
 8 memory are formed on the unitary substrate.

1 2. An optical mouse integrated circuit, as defined in claim 1, further comprising a
 2 digital signal processor interposing the analog-to-digital converter and the
 3 microprocessor.

1 3. An optical mouse integrated circuit, as defined in claim 2, the digital signal
 2 processor further including a hardware controller.

1 4. An optical mouse integrated circuit, as defined in claim 1, further comprising a
 2 hardware controller interposing the analog-to-digital converter and the microprocessor.

1 5. An optical mouse integrated circuit, as defined in claim 1, the microprocessor
 2 further including an input/output controller.

1 6. An optical mouse integrated circuit, as defined in claim 5, further comprising a
 2 digital signal processor interposing the analog-to-digital converter and the
 3 microprocessor.

1 7. An optical mouse integrated circuit, as defined in claim 6, the digital signal
 2 processor further including a hardware controller.

- 1 8. An optical mouse integrated circuit, as defined in claim 1, wherein the memory
2 is programmable memory.